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The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and the allied sciences received in the National Agricultural Library. Magnetic tapes supplied by the library are computer processed, using several vocabulary control mechanisms. The resulting subject and author indexes provide access to the literature in considerably less time than would be required by traditional indexing techniques.

BIBLIOGRAPHY OF AGRICULTURE

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*These categories are infrequently used

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

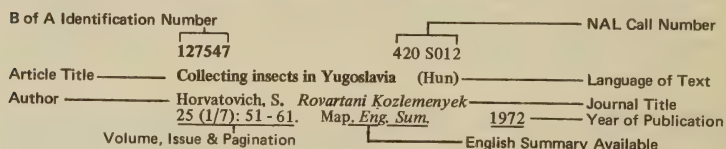
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)

I. Water, fats, ash & salt. II **Protein**

Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)

profits through nutrition and **management**

Management agricultural extension

* **Administration** of agricultural cooperatives

Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES

Physical properties of blue-green **algal virus**

Venezuelan equine **encephalomyelitis virus**

Limited proteolysis of **potato virus X** by

with sugar beet tolerance to **virus yellows**.

If a search is required which related to a general term such as an **ACID** it would be preferable to search under the specific type of **ACID**. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

The asterisk line: * * * * *

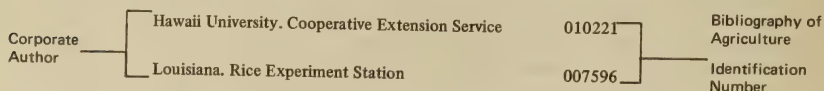
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms: \$1.00 for each 30 pages or fraction copied from a single article or book

Electrostatic Copies: \$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

- 000001 275.8 AG8
Adult education in agriculture & career education - real problem. Richardson, B
Agric Educ 46 (4): 77, 82. Oct 1973
- 000002 275.8 AG8
A critique of research in agricultural education. Kahler, A A *Agric Educ* 46 (4): 86-87. Oct 1973
- 000003 275.8 AG8
In teacher education - apply 'learning by doing' with adults. Lawrence, J F *Agric Educ* 46 (4): 90-91. Oct 1973
- 000004 275.8 AG8
Career education: adult programs - a unique opportunity to serve returning veterans. Omvig, C P *Agric Educ* 46 (4): 92, 94. Oct 1973
- 000005 275.8 AG8
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Vocational agriculture & agribusiness - a valuable partnership. [National Vocational Agriculture Teacher's Association]. McDowell, D M *Agric Educ* 46 (5): 107, 119. Nov 1973
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Building professional vocational agriculture teacher - a state challenge. [National Vocational Agricultural Teachers' Association]. Wallace, H *Agric Educ* 46 (5): 112. Nov 1973
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This we believe. [National Vocational Agricultural Teacher's Association. Rejahl, C D *Agric Educ* 46 (5): 113. Nov 1973
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Role of state association unique. [Education]. Witt, E E *Agric Educ* 46 (5): 114, 119. Nov 1973
- 000011 275.8 AG8
To local teacher - 'happiness is NVATA' [National Vocational Agricultural Teachers' Association]. Wacholz, M W *Agric Educ* 46 (5): 118. Nov 1973
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Data provided by National Agricultural Library
U.S. Department of Agriculture

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*Physical sciences and mathematics	
*Chemistry	
*Technology	
*Economics and administration	
*Social sciences and humanities	
*Information science	

*These categories are infrequently used

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

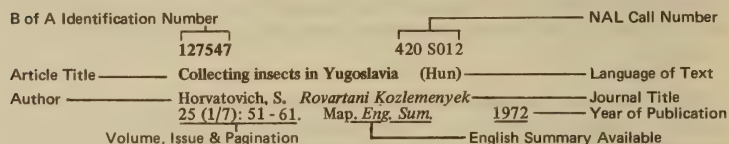
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)

I. Water, fats, ash & salt. II **Protein**

Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)

profits through nutrition and **management**

Management agricultural extension

* **Administration** of agricultural cooperatives

Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES

Physical properties of blue-green **algal virus**

Venezuelan equine **encephalomyelitis virus**

Limited proteolysis of **potato virus X** by

with sugar beet tolerance to **virus yellows**.

If a search is required which related to a general term such as an **ACID** it would be preferable to search under the specific type of **ACID**. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

The asterisk line: * * * * *

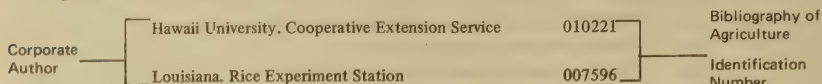
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

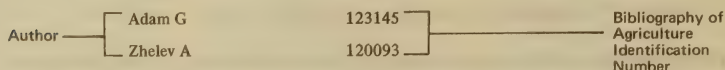
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	\$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	\$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

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Industrial growth for rural communi-
Fuller, T E A E R S Dep Agric Econ
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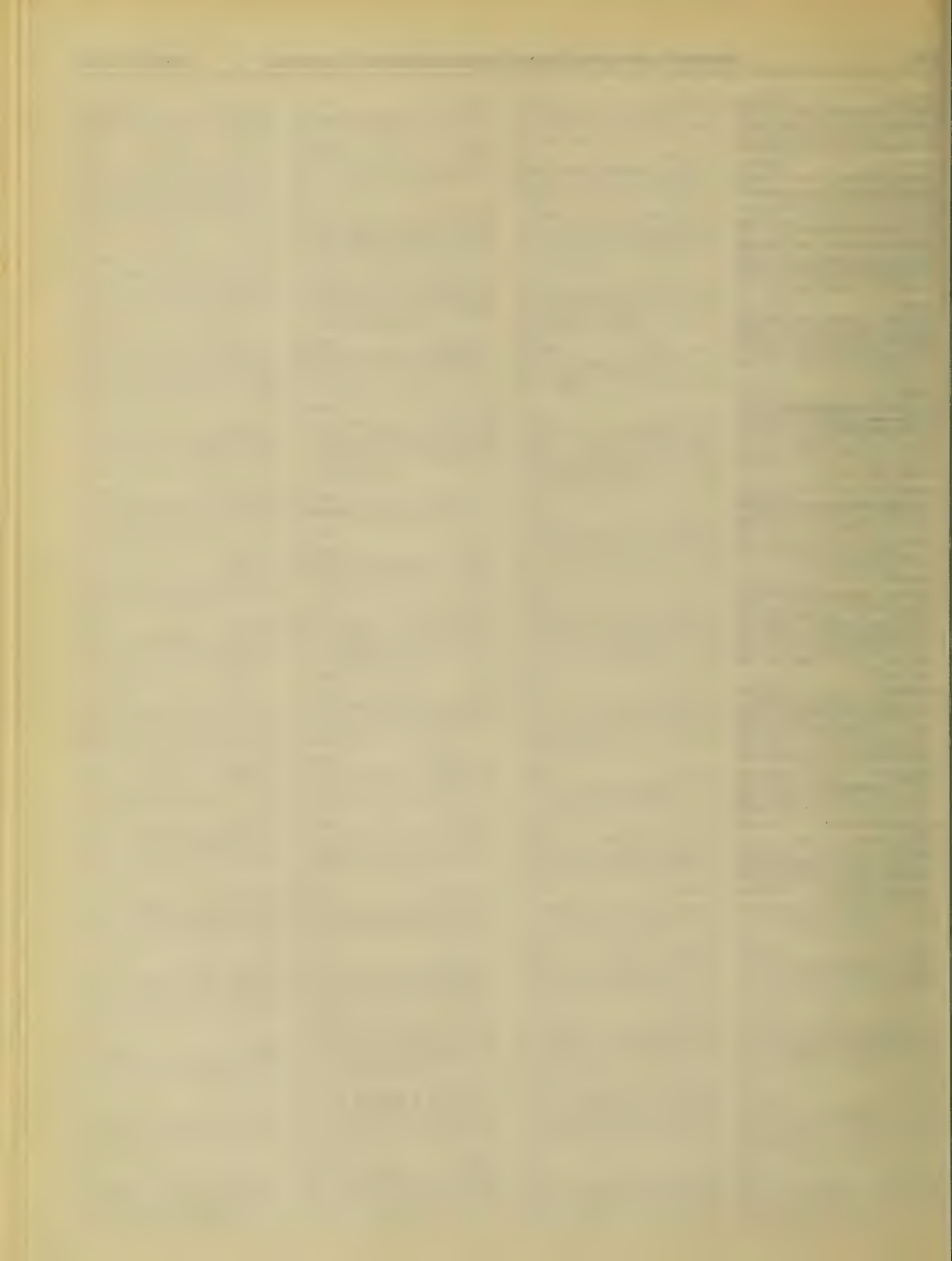
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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

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Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

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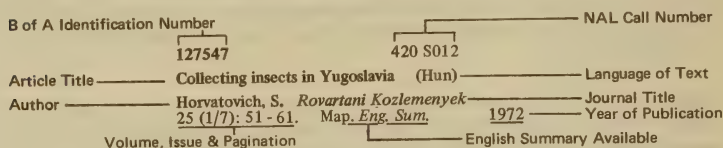
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)

I. Water, fats, ash & salt. II **Protein**

Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)

profits through nutrition and **management**

Management agricultural extension

* **Administration** of agricultural cooperatives

Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES

Physical properties of blue-green **algal virus**

Venezuelan equine **encephalomyelitis virus**

Limited proteolysis of **potato virus X** by

with sugar beet tolerance to **virus yellows**.

If a search is required which related to a general term such as an **ACID** it would be preferable to search under the specific type of **ACID**. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

The asterisk line: * * * * *

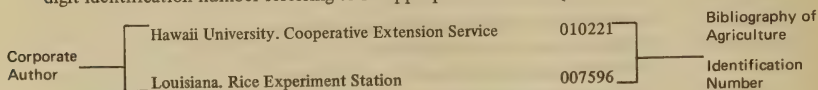
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

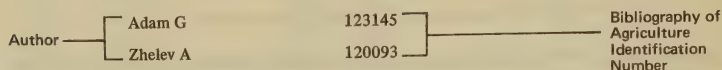
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

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Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

- 017602** 19 AG85
A century of agricultural education in Hungary, data relating to Kecskemet. (Hun) Vezekenyi, E *Agrartort Sz* 15 (1/2): 139-155. Ref. 1973
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Rural census & surveyors in Poland during second half of 18th century. (Hun) Fainowska-Gradowska, A *Agrartort Sz* 15 (1/2): 39-50. Ref. 1973
- 017604** 58.8 AG832
Can harvest factories feed us in year 2000? (Spa) Schramm, R I *Agric Am* 22 (11): 30-31, 42-43. Nov 1973
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Year 2003, an agricultural odyssey. I. Concepts of principal machines, design of fields, seeding in furrows, to tal harvest of entire crop. (Spa) Buchele, W F *Agric Am* 22 (11): 38, 40, 47. Nov 1973
- 017606** 275.8 AG8
Students request supervisory visits. [Agricultural, education]. Mooney, J *Agric Educ* 46 (7): 149. Jan 1974
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A successful rural-urban situation. [Agricultural education]. Simmons, J C *Agric Educ* 46 (7): 151-152. Jan 1974
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- 017609** 275.8 AG8
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- 017610** 275.8 AG8
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- 017612** 275.8 AG8
Objectives: A return to reason. [Agricultural education]. Hill, R K *Agric Educ* 46 (7): 162-163. Jan 1974
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Information problem. [Agriculture]. (Fre) J Coussin, G *Agriculture (paris)* 370: 290-291. Nov 1973
- 017616** 26 AG86
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Study on sprinkler irrigation in Sahelian area (Tillabery, Niger): Wind, sprinklers. (Fre) Duc, T M *Agron Trop (paris)* 28 (9): 901-915. Sept 1973
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Higher education in rural social sciences. Mosher, A T *Am J Agric Econ* 55 (4, Pt. II): 711-719. Ref. Nov 1973
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Decision making pattern with respect to farm related & family planning decisions. [Farmers behavior]. Puri, S. *Indian J Ext Educ* 8 (3/4): 61-68. Ref. Sept./Dec 1972
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Tendency to adopt a telecast farm innovations & motivational dispositions of Delhi farmers. [Farmer education]. Sinha, B. P. *Indian J Ext Educ* 8 (3/4): 69-73. Sept./Dec 1972
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- 017678** 104 SW3
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Agro-engineering college oranienburg. Our contribution to socialist competition for developing future leaders. (Ger) Urzynick, H. *Kooperation* 7 (9): 408-411. Sept 1973
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- 017683** 99.9 C334
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- 017700** 80 R3212
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- 017708** 100 T31TE
Weslaco Center guides agricultural progress in Lower Rio Grande Valley. [Research]. Haney, R. L. *Tex Agric Prog* 19 (4): 14-15. Fall 1973
- 017709** 11 T58
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- 017710** 19.5 C333
Organization of agricultural research in USSR. (Cze) Starnovsky, B. *Vestn Cesk Akad Zemed* 20 (9): 403-410. 1973
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Water resources and management	036197-036303
General natural resources and environmental pollution	036304-036485
*Life sciences	
*Physical sciences and mathematics	
*Chemistry	
*Technology	
*Economics and administration	
*Social sciences and humanities	
*Information science	

*These categories are infrequently used

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

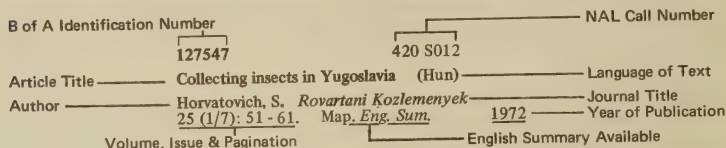
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)

I. Water, fats, ash & salt. II **Protein**

Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)

profits through nutrition and **management**

Management agricultural extension

* **Administration** of agricultural cooperatives

Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES

Physical properties of blue-green **algal virus**

Venezuelan equine **encephalomyelitis virus**

Limited proteolysis of **potato virus X** by

with sugar beet tolerance to **virus yellows**.

If a search is required which related to a general term such as an **ACID** it would be preferable to search under the specific type of **ACID**. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

The asterisk line: * * * * *

Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.

Corporate Author	Hawaii University, Cooperative Extension Service	010221	Bibliography of Agriculture Identification Number
	Louisiana, Rice Experiment Station	007596	

AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.

Author	Adam G	123145	Bibliography of Agriculture Identification Number
	Zhelev A	120093	

AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms:	\$1.00 for each 30 pages or fraction copied from a single article or book
Electrostatic Copies:	\$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

- 027988** HD1987.L32
Frisian cattle breeders & their opposing attitudes to changes in profession. (Dut) Dekker, K M (publ) *Landbouw Econ Inst Afr Streekonderz* 2.47, 45 P. Map. Aug 1973
- 027989** HD1987.L32
Plans for a change in profession, opinions & expectations of Frisian cattle breeders concerning a possible change of profession. (Dut) Spierings, C J M (publ) *Landbouw Econ Inst Afr Streekonderz* 2.48, 40 P. Map. Ref. June 1973
- 027990** HD1987.L32
Views of wives of Frisian farmers concerning a change in profession. (Dut) Kloprogge, J J J (publ) *Landbouw Econ Inst Afr Streekonderz* 2.49, 37 P. Map. Ref. May 1973
- 027991** 280.8 AG82
Radio broadcasting in rural area. (Ger) Twaroch, P *Agrar Rundsch* 6: 1-3. Dec 1973
- 027992** 280.8 AG82
Relation of agriculture & forestry to party press. [Information]. (Ger) Klar, P *Agrar Rundsch* 6: 10-12. Dec 1973
- 027993** 280.8 AG82
Press reporter: a means between wish & reality. [Agriculture, information]. (Ger) Hofinger, W *Agrar Rundsch* 6: 12-14. Dec 1973
- 027994** 280.8 AG82
On position of Austrian agricultural documentation. (Ger) Pevetz, W *Agrar Rundsch* 6: 16-17. Dec 1973
- 027995** 280.8 AG82
Agriculture & forestry & media. [Information]. (Ger) Pattera, W *Agrar Rundsch* 6: 18-20. Dec 1973
- 027996** 280.8 AG82
Public relations for agriculture. [Information]. (Ger) Oertel, K *Agrar Rundsch* 6: 4-5. Dec 1973
- 027997** 280.8 AG82
New professional structures & training methods in rural areas. (Ger) Nussbaumer, A *Agrar Rundsch* 6: 55-56. Dec 1973
- 027998** 280.8 AG82
Right to information. [Agriculture]. (Ger) Ritschel, K H *Agrar Rundsch* 6: 6-7. Dec 1973
- 027999** 280.8 AG82
Newspaper between city & country. [Agriculture, information]. (Ger) Lenhardt, D *Agrar Rundsch* 6: 8-9. Dec 1973
- 028000** 23 AG82S
Associated Country Women of World. Cullen, B *Agric Bur N S W Proc Annu State Conf* 48Th: 73-77. 1972
- 028001** 275.8 AG8
What realities do we need in a non-degree teacher? [Education]. Kindschy, D L *Agric Educ* 46 (8): 173-174. Feb 1974
- 028002** 275.8 AG8
Certification - a new way at Kent State. [Education]. Asche, W E *Agric Educ* 46 (8): 174. Feb 1974
- 028003** 275.8 AG8
Relationship of FFA [Future Farmers of America] to total instructional program. [Education]. Newcomb, L H *Agric Educ* 46 (8): 176-177. Feb 1974
- 028004** 275.8 AG8
What young farmers expect from educational programs. Siegrist, H J *Agric Educ* 46 (8): 179. Feb 1974
- 028005** 275.8 AG8
World's technical agriculture schools. Martens, D W *Agric Educ* 46 (8): 180, 191. Feb 1974
- 028006** 275.8 AG8
Middle level agricultural training in developing countries. Kingshotte, A *Agric Educ* 46 (8): 181-182. Feb 1974
- 028007** 275.8 AG8
In-service education for post-high instructors. Huntwork, G J *Agric Educ* 46 (8): 190-191. Feb 1974
- 028008** 105.2 V61V
History of agriculture in Beijerland. (Dut) Baars, C *Agric Res Rep (cent Agric Pub Doc Wageningen)* 801, 234 P. Map. Ref. Eng. Sum. 1973
- 028009** 16 AG8226
Agriculture & tourism. (Ita) Gazzani, D *Agricoltura* 22 (11): 27-49. Map. Ref. Nov 1973
- 028010** 15 AG84
Development of Soviet agricultural science. (Spa) Pannikov, V *Agricultura (madr)* 42 (499): 741-742. Nov 1973
- 028011** 14 AG823
A double activity for farmers. [Part-time farming]. (Fre) Rouveroux, P *Agriculture (paris)* 371: 317. Dec 1973
- 028012** S11.N68
Information conference: agriculture, 1973. (Nor) *Aktuelt Landbruksdep Opplysningsjeneste [norw]* 2, 164 P. 1973
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Information meeting, Troms, 3-5 April 1973. [Forage, livestock husbandry]. (Nor) *Aktuelt Landbruksdep Opplysningsjeneste [norw]* 4, 269 P. Ref. 1973
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A need for communication between university research & agriculture. (Nor) Steen, J B *Aktuelt Landbruksdep Opplysningsjeneste [norw]* 4: 4-6. 1973
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Information - research results. [Methods]. (Nor) Valberg, E *Aktuelt Landbruksdep Opplysningsjeneste [norw]* 4: 7-12. 1973
- 028016** 280.29 AM3A
Several roads can be taken for cooperative growth. Leith, W G *Am Coop, Am Inst Coop P*: 135-143. 1972/73
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What are issues involved in cooperative growth. Koller, F *Am Coop, Am Inst Coop P*: 143-148. 1973/73
- 028018** 280.29 AM3A
Cooperatives Unlimited - a concept for cooperation. Ellerbe, T F *Am Coop, Am Inst Coop P*: 149-153. 1972/73
- 028019** 280.29 AM3A
How cooperative growth compares with other businesses. Abrahamson, M A *Am Coop, Am Inst Coop P*: 336-343. 1972/73
- 028020** 280.29 AM3A
An overview of major trends & changes. [Farmer cooperatives]. Holroyd, W R *Am Coop, Am Inst Coop P*: 343-360. 1972/73
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Facing issue of integration. [Farm cooperatives]. Dahle, R *Am Coop, Am Inst Coop P*: 49-56. 1972/73
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Migration patterns of minorities in United States. [Agricultural labor]. Beale, C L *Am J Agric Econ* 55 (5): 938-951. Dec 1973
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- 028026** 280.8 J822
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Agricultural economists responding to an expanding clientele. [Extension work]. Austman, H H *Am J Agric Econ* 55 (5): 989-1002. Dec 1973
- 028028** 16 V59
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- 028029** 16 V59
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- 028030** 16 V59
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- 028031** 18 N11
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Technicians examined by state are qualified recruits for agriculture & viticulture. (Ger) May, P *Ausbild Berat Land Hauswirtsch* 26 (11): 186-188. Nov 1973
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Practical professional training: results of a study. [Agriculture]. (Ger) Weber, P *Ausbild Berat Land Hauswirtsch* 26 (11): 189-191. Nov 1973
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Environmental protection as a task & theme of training. [Agriculture]. (Ger) Forstemeier, E *Ausbild Berat Land Hauswirtsch* 26 (11): 193-195. Nov 1973

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Professional & work pedagogy, a new subject in agricultural school. (Ger) Cordts, H *Betriebswirtschaftl Mitt Wirtschaftsbereit* 224/225: 29-33. Nov/Dec 1973
- 028036** 451 M854
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Labels in history of sugarcane rum. III. (Por) Frago, D *Bras Acucar* 82 (5): 56-60. Nov 1973
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Communications relative to 1971-1972 agricultural season. III. Climatic aspects of 1971-1972 agricultural season. (Fre) Geslin, H C R *Seances Acad Agric Fr* 59 (10): 735-753. 1973
- 028041** 15 C12
Luck & risks of agriculture. (Spa) Bover Argerich, J *Cal Paves* P. 63-69. 1974
- 028042** S12.C4
Report for year 1971 of Centre for Agricultural Research in Surinam. CELOS Bull (cent Landbouwkond Onderz Surinam) 16, 48 P. 1972
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Village & urbanization: Sociological problems. (Fre) Rambaud, P *Etud Rurales Ec Prat Hautes Etud* 49 (50): 14-32. Ref. Jan/June 1973
- 028044** S544.3.M6M5
Extension work in Olmsted County. *Ext Program Rep Univ Minn Agric Ext Serv* 48, 2 P. 1972
- 028045** TX341.F3
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EEC [European Economic Community] retirement scheme-some sociological aspects. [Farmers]. Kelleher, C *Farm Food Res* 4 (5): 113-114. Sept/Oct 1973
- 028047** 448.8 IN22
Seasonal elevations of plasma transaminase in rural West Bengal children. Halli, W D *Indian J Med Res* 61 (5): 777-784. May 1973
- 028048** 275.29 C121
Cooperative-member education & communication: a case study. Carman, H F *Inf Serv Agric Econ Univ Calif Agric Ext Serv Agric Econ* 73-3, 35 P. Sept 1973
- 028049** 44.8 C866
Some sociological aspects of agricultural cooperation. Commins, P *Ir Agric Cream Rev* 26 (7): 19-26. Ref. Aug 1973
- 028050** HD2087.J6
New directions for education to meet needs of rural areas. Campos, A C *J Agric Econ Dev* 3 (1): 80-84. Jan 1973
- 028051** 500 AL12
Overton Farm. Norwood, J A *J Ala Acad Sci* 44 (1): 52-57. Jan 1973
- 028052** 23 AU74
Accountability in agricultural science. Miles, L G *J Aust Inst Agric Sci* 39 (3): 175-180. Ref. Sept 1973
- 028053** 23 AU74
Research administration in Tasmanian Department of Agriculture. Miller, L W *J Aust Inst Agric Sci* 39 (3): 183-185. Sept 1973
- 028054** 10 IR2J
Early school leaving among future farmers. O'Connor, D J *J Dep Agric Fish (dublin)* 69: 75-90. Ref. 1972 (Pub. 1973)
- 028055** 44.8 J824
Community health aspects of water pollution problems. Walker, B J *Milk Food Technol* 37 (1): 22-25. Ref. Jan 1974
- 028056** 11 J732
Agricultural education in Zambia. (Swe) Clason, C *Jonkop Hushallningsswalsk Tidsskr* 4: 20-21. 1973
- 028057** 11 K123
Agricultural research: organization & scope in Kalmur county. (Swe) Alvelid, S *Kalmur Hushallningsswalsk Tidsskr* 1: 19-21. 1974
- 028058** HD5723.M3
Hitchhiking to rural jobs. Susman, R *Manpower (washington)* 4 (11): 24-28. Nov 1972
- 028059** S11.9S
Agriculture in Sormland. (Swe) Medd, S *A Kungl Lantbruksstyret (stockh)* 15, 145 P. Map. 1973
- 028060** 505 T75
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- 028061** QH7.N3
Preparing pupils for practical farming activities. (Rum) Fulop, S *Natura* 25 (6): 76-80. Nov/Dec 1973
- 028062** 20.5 N86
Methods of neutralization of meteorological phenomena which are harmful to agriculture. (Pol) Radomski, C *Nowe Roln* 22 (21): 9-10. Nov 1/15 1973
- 028063** S13.O2
Methodological recommendations on assembly of information-documentation resources & their organization. (Rus) Pavlova, G P *Obz Inf Minisl Sel'sk Khoz SSSR Vses Nauchno-Issled Inst Int Khokh-Ekon Issled Sel'sk Khoz* 723, 56 P. Ref. 1973
- 028064** 100 OH3S (2)
Ohio Agricultural Research & Development Center, 91st annual report, 1972: Research & you. *Ohio Agr Res Develop Center Res Bull* 1061, 34 P. Map. Ref. 1972
- 028065** HD1922.O9
Strategic considerations in Israeli Agricultural Development. Pohoryles, S *Oxf Agric Stud (New Ser.)* 2 (2): 132-140. 1973
- 028066** HD1922.O9
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- 028067** 501 L84PB
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- 028068** S590.A1C3
University-industry cooperation in graduate education. [Agriculture]. Peterson, M L *Proc Calif Plant Soil Conf* P. 51. 1973
- 028069** S590.A1C3
Role of community colleges in agricultural education. Axtell, J D *Proc Calif Plant Soil Conf* P. 54. 1973
- 028070** 27 L63
Quality of country life. McArthur, A T G *Proc Lincoln Coll Farmers Conf* 23Rd: 127-136. Oct 1973
- 028071** 100 R342
4-h clubs boom in urban Rhode Island. Programs have been adjusted for city & suburbia. Coombs, K L *R I Resour* 19 (4): 10-12. Fall 1973
- 028072** 100 R342
Married: resource development & community planning. Planning curriculum dovetails with college's resource activities. [Education]. Foster, H H *R I Resour* 19 (4): 8-9. Fall 1973
- 028073** 100 M693 (3)
A comparison of rural churches & ministries in Missouri over a 15 year period. [Sociology]. Hassinger, E W *Res Bull Univ Mo Columb Coll Agric Agric Exp Stn* 999, 26 P. Ref. Nov 1973
- 028074** S51.E22
Employment & income characteristics for Georgia counties, 1940-1970. [Statistics]. Smith, B J *Res Rep Univ Ga Coll Agric Exp Stn* 178, 28 P. Map. Dec 1973
- 028075** 24 M44
Report of field work carried out by agricultural mission from Republic of China to Mauritius. Wang, H *Rev Agric Surt Ille Maurice* 52 (2): 65-72. Apr/June 1973
- 028076** 41.8 SCH9
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- 028077** 17 SCH93
Preparation & realization of pedagogic & didactic courses in agricultural cadre education as examples of practical adult education. (Ger) Pettimeter, P *Schweiz Landwirtsch Monatsh* 51 (11): 422-432. Nov 1973
- 028078** S605.5.S6
Intermediate Technology Development Group. [Agriculture]. Solomon, F *Soil Assoc* 1 (9): 10-11. Dec 1973
- 028079** HD101.S6
Determining locations for rural medical clinics: a model & its use. Hardy, W E *South J Agric Econ* 5 (2): 165-174. Map. Ref. Dec 1973
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- 028081** 464.8 SP2
Australia: forty-five years of CSIRO (Commonwealth Scientific & Industrial Research Organisation) Division of Plant Industry. Hills, K L *Span* 16 (3): 109-112. 1973
- 028082** S13.S82
Development & prospects of extramural education in agriculture in some socialist & capitalist countries. (Cze) Sklenar, J *Stud Inf, Vseob Otazky Zemed* 3, 56 P. Ref. Eng. Sum. 1973
- 028083** 44.8 OF2
Quebec's agriculture. (Fre) Millet, J C *Tech Lat* 28 (792): 13, 17. Map. Oct 1, 1973
- 028084** 41.8 T445
Agriculture & environment. (Ger) Preuschen, G *Tierarztl Umsch* 29 (1): 3-9. Jan 1, 1974
- 028085** 8 T445
Social sciences & university in development of arid zones. [Rural areas]. (Spa) Aiers-Montalvo, M *Tierra* 28 (11): 847-848. (Continued) Nov 1973
- 028086** 8 T445
Translation of modern agricultural theory into practice. (Spa) Lionberg, H F *Tierra* 28 (11): 853. Nov 1973
- 028087** 331.9 M85
Information on rural settling in Iran. (Rus) Nachkebia, N V *Vestn Moskovsk Univ, Geogr* 5: 90-92. Ref. Eng. Sum. Sept/Oct 1973
- 028088** 20 V633
Seventy-fifth anniversary of Ukrainian Agricultural Academy. (Rus) Ilurshishin, V V *Vestn S-kh Nauki (mosc)* 11: 124-127. Nov 1973
- 028089** 41.8 SCH7
Visit to Sweden at invitation of Swedish Agricultural Cooperative Organization. (Ita) Barbabella, V *Vet Ital* 24 (5/6, Suppl. 10): 129-139. May/June 1973
- 028090** 1 AG84Y
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- 028091** 1 AG84Y
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Insect pests and controls — products	044937-044971
Insect pests and controls — animal and man	044972-045096
Pesticides — general	045097-045184
General entomology	045185-045600
Taxonomic entomology	045601-045818
Apiculture and sericulture	045819-045936
Agricultural engineering	045937-045992
Farm equipment	045993-046152
Soil Science	046153-046390
Soil improvement materials	046391-046584
Soil resources and management	046585-046652
Water resources and management	046653-046774
General natural resources and environmental pollution	046775-046979
*Life sciences	
*Physical sciences and mathematics	
*Chemistry	
*Technology	
*Economics and administration	
*Social sciences and humanities	
*Information science	

*These categories are infrequently used

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INTRODUCTION

The *Bibliography of Agriculture* is a monthly index to the literature of agriculture and allied sciences, based upon the indexing records prepared by the U.S. National Agricultural Library, for its CAIN (Cataloging and Indexing) computer system. Macmillan Information, a division of the Macmillan Publishing Company, Inc. prepares and publishes the Bibliography under the control of its own computer indexing system.

CONTENT

The National Agricultural Library collects literature related to agriculture from world wide sources. Publications are considered for inclusion in the CAIN System if a summary, abstract or title is available in a language in which the Library has expertise. The Bibliography includes journal articles, pamphlets, government documents, special reports, proceedings, etc. Books, new serials and other materials recently cataloged by the Library are announced in the *National Agricultural Library Catalog* published by Rowman and Littlefield.

Articles of substantial interest to the agricultural community are selected by specialists on the library staff. Editorials, letters to the editor, regular columns, and articles signed with pseudonyms or initials are not included. Indexing of articles on the processing of agricultural products is limited to those on primary processing. Generally material must have been published in the current year or the preceding year, but exceptions are made for comprehensive volumes or works of special significance to a wide audience.

The Bibliography is now divided into five sections: A main entry section, a subject index, a geographic index, a corporate author index, and a personal author index.

MAIN ENTRY SECTION

The main entry section provides full bibliographic data for the records added to the CAIN system during the preceding month by the National Agricultural Library.

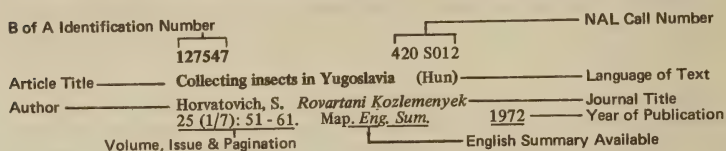
Entries are assigned to one (or more if appropriate) of the broad subject categories shown in the table of contents. The array of subject categories was increased in 1973 to facilitate browsing through a small number of citations of high relevance to a particular interest. Approximately equal numbers of citations will fall into each category over a given period of time. In assigning materials to the categories, first consideration is given to the aspect, discipline or methodology involved, so that the categories will enhance information given in the title.

Within each category, entries are arranged alphabetically by journal title abbreviation. This permits rapid locating and scanning of articles from journals which are known to be relevant.

Each entry begins with a six digit identification number assigned sequentially throughout a volume year. This number serves as an identifier for the item in the various indexes. The call number of the National Agricultural Library is also noted on the first line of each entry, and should be included in any correspondence with the library. All titles are in English, using the Library's translations of non-English titles as necessary. If the text is other than English, the original language is indicated in parentheses following the title, using the following notations:

(Afr)	Afrikaans	(Fle)	Flemish	(Lit)	Lithuanian
(Alb)	Albanian	(Fre)	French	(Mac)	Macedonian
(Arm)	Armenian	(Geo)	Georgian	(Nor)	Norwegian
(Aze)	Azerbaijani	(Ger)	German	(Pol)	Polish
(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)

I. Water, fats, ash & salt. II Protein

Modifying proteins for maximum utilization

MANAGEMENT (grammatical and term variation)

profits through nutrition and management

Management agricultural extension

* Administration of agricultural cooperatives

Techniques of administering apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES

Physical properties of blue-green algal virus

Venezuelan equine encephalomyelitis virus

Limited proteolysis of potato virus X by
with sugar beet tolerance to virus yellows.

If a search is required which related to a general term such as an ACID it would be preferable to search under the specific type of ACID. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

The asterisk line: * * * * *

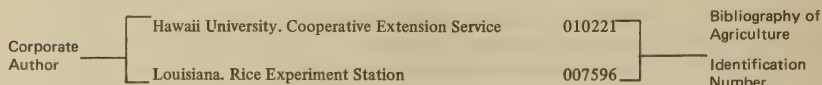
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

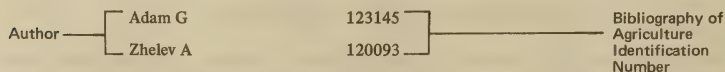
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

- | | |
|-----------------------|--|
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Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

- 036486** 58.8 AG832
Year 2003, an agricultural odyssey. I. Prognosis of principal machines, designs of fields, seeding in furrows, total harvest of entire crop. (Spa) Buchele, W F *Agric Am* 22 (10): 52-53. Oct 1973
- 036487** 281.9 M5842
A comprehensive rural health clinic: case study of public program evaluation methodology. Schmid, A A *Agric Econ Rep Dep Agric Econ Mich State Univ* 260, 40 P. Dec 1973
- 036488** 275.8 AG8
Let's move ahead with programs in agricultural education. Dougan, J E *Agric Educ* 46 (9): 197-198. Mar 1974
- 036489** 275.8 AG8
A good place to go. [Vocational agriculture]. Archer, T *Agric Educ* 46 (9): 199. Mar 1974
- 036490** 275.8 AG8
Older Americans: a new challenge. [Agricultural education]. Sheppard, N A *Agric Educ* 46 (9): 202-203. Mar 1974
- 036491** 275.8 AG8
Nepal: Vocational educator's role in elementary education. Stiitt, T R *Agric Educ* 46 (9): 204-206. Mar 1974
- 036492** 275.8 AG8
Conversion to metric system. [Agricultural education]. Crunkilton, J R *Agric Educ* 46 (9): 207, 210. Mar 1974
- 036493** 275.8 AG8
Specialized & generalized vo-tech [vocational-technical] teacher education. Wieggers, G W *Agric Educ* 46 (9): 209, 213, 215. Mar 1974
- 036494** 275.8 AG8
Adjusting a vo-ag [vocational agriculture] program to student needs. Howell, D L *Agric Educ* 46 (9): 211. Mar 1974
- 036495** 275.8 AG8
Meeting a challenge in teacher education. [Agriculture]. Armstrong, D L *Agric Educ* 46 (9): 212-213. Mar 1974
- 036496** 1 AG84AB
Science for living: A report on progress from agricultural research. *Agric Inf Bull Econ Res Serv U S Dep Agric* 363, 68 P. Jan 1974
- 036497** 340.8 AG8
Eddy fluxes over a vineyard. Hicks, B B *Agric Meteorol* 12 (2): 203-215. Nov 1973
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An error analysis of measurement of horizontal divergence in wind field of a small, heated orchard. Stepp, R D *Agric Meteorol* 12 (2): 249-257. Nov 1973
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A multiple regression analysis of evaporation during growing season of vegetation in arid zone of India. Krishnan, A *Agric Meteorol* 12 (2): 297-307. Ref. Nov 1973
- 036500** 340.8 AG8
Recently published papers. [Agricultural meteorology]. Smith, L P *Agric Meteorol* 12 (2): 309-327. Ref. Nov 1973
- 036501** 22 AG823
Inservice training needs of agricultural extension officers. Menon, A G G *Agric Res J Kerala* 10 (2): 157-161. Sept 1972 (Pub. Aug 1973)
- 036502** 64.8 AG84
Weather conditions of economic year 1970 - 71 at Tapioszele. (Hun) Lun, L *Agrobotanika* 14: 9-13. 1972 (Pub. 1973)
- 036503** 500 AS73
Nature of agricultural systems. Spencer, J E *Ann Assoc Am Geogr* 63 (4): 529-544. Ref. Dec 1973
- 036504** 500 N484
Preface: City & peasant. A study in sociocultural dynamics. LaRuffa, A L *Ann N Y Acad Sci* 220 (6): 347-349. Mar 11, 1974
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Intervillage, intertown, & village-city relations in Cambodia. Ebihara, M *Ann N Y Acad Sci* 220 (6): 358-375. Ref. Mar 11, 1974
- 036506** 500 N484
Modernization of peasant society in Northeast Thailand. Fraser, T M *Ann N Y Acad Sci* 220 (6): 376-384. Ref. Mar 11, 1974
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Contemporary peasant & postpeasant alternatives in South India: ideas of a militantly untouchable. Barnett, M R *Ann N Y Acad Sci* 220 (6): 385-410. Ref. Mar 11, 1974
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Attitudes, behavior, & urban influences in a north Indian village. Freed, S A *Ann N Y Acad Sci* 220 (6): 411-424. Ref. Mar 11, 1974
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Origins of process of proletarianization & urbanization of Arab peasants in Palestine. Carmi, S *Ann N Y Acad Sci* 220 (6): 475-485. Ref. Mar 11, 1974
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Social stratification in a Greek village. Schein, M D *Ann N Y Acad Sci* 220 (6): 488-495. Ref. Mar 11, 1974
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Urbanization in Sicily: Two contrasting models. Schneider, J *Ann N Y Acad Sci* 220 (6): 496-508. Ref. Mar 11, 1974
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From political association to public tavern: Two phases of urbanization in rural Catalonia (Spain). Hansen, E C *Ann N Y Acad Sci* 220 (6): 509-521. Mar 11, 1974
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Demographic aspects of rural-urban migration in European countries since Second World War. Weintraub, P *Ann N Y Acad Sci* 220 (6): 524-537. Ref. Mar 11, 1974
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Why do peasants urbanize? a Yugoslavian case study. Denich, B S *Ann N Y Acad Sci* 220 (6): 546-559. Ref. Mar 11, 1974
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Urbanization & vanishing peasantry in Hungary. Maday, B C *Ann N Y Acad Sci* 220 (6): 560-568. Ref. Mar 11, 1974
- 036516** 81 M58
173 Activities of WSAM [Women for Survival of Agriculture, Michigan]. Steffens, S *Annu Rep Secr State Hortic Soc Mich* P. 159-161. 1974
- 036517** 450 AR1
Results of meteorological observations made in Kornik in year 1972. (Pol) Kaczmarek, C *Arbor Kornick* 18: 273-290. 1973
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Organization of agricultural advisory service in Israel. (Ger) Muller, P *Ausbild Berat Land Hauswirtsch* 26 (12): 213-216. Dec 1973
- 036522** A280.39 M34AM
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- 036523** aS21.A75U45
Annotated bibliography on opium & Oriental poppies & related species. [Papaver, drug plants, drug abuse]. Duke, J A *ARS-NE Agric Res Serv U S Dep Agric* 28, 349 P. Ref. Dec 1973
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- 036526** 296.8 AR1
Village renovation: Experiences & perceptions. (Ger) Biskupek, E *Bauen Lande* 25 (1): 16-21. Map. Jan 1974
- 036527** 18 G31
Trickle irrigation: a new irrigation method with salt containing water for agricultural utilization of coarse sand soils. (Ger) Richter, W *Ber Landwirtsch (hamburg) (New Ser.)* 51 (3): 532-544. Eng. Sum. 1973
- 036528** 100 N465 (1)
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Improvement of cultural methods in irrigated crops under a Mediterranean climate. (Fre) Dalleinne, E *Bull Inf CNEEMA (cent Natl Etud Exp Mach Agric)* 191: 33-40. Dec 1973
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Agriculture from antiquity to our days. (Fre) *Bull Inf Mutual Agric* 242: 48-57. Jan 1974
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Extension workers & farmer characteristics. Borne, B van den *Bull Rural Econ Socio* 8 (1): 37-59. 1973
- 036535** 14 F844B
On things seen in Romania in 1972. [Agriculture]. (Fre) Martin, N *Bull Tech Inf Minist Agric (paris)* 284: 821-838. Map. Nov 1973
- 036536** 449.9 W892B
Molluscicide for control of schistosomiasis in irrigation schemes: A study in Southern Rhodesia. Shiff, C J *Bull W H O* 48 (3): 299-307. 1973
- 036537** S39.E952 CUA
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- 036538** 24 C353
Geographic aspects of flood plains of north Cameroon. [Agriculture]. (Fre) Fritsch, Cameroon Agric Pastor For 137: 33-42 (Continued). Sept 1973
- 036539** 24 C353
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- 036540** 281.8 C16
Migration patterns of minorities in united states. Beale, C L *Can J Agric Econ* 55 (5): 938-946. Dec 1973
- 036541** 281.8 C16
Role of 1890 colleges & universities in research on minority problems. [Agricultural population]. Williams, T T *Can J Agric Econ* 55 (5): 947-951. Dec 1973
- 036542** 281.8 C16
Traditional graduate admission standards as constraints to increasing supply of black professional agriculturalists: Florida experience. Davis, C G *Can J Agric Econ* 55 (5): 952-966. Ref. Dec 1973
- 036543** 281.8 C16
Agricultural economists responding to an expanding clientele. [Extension service]. Austman, H H *Can J Agric Econ* 55 (5): 989-992. Dec 1973
- 036544** 382 M31C
Application of agricultural science & technology to development: Papers presented at a symposium organized by Agricultural Group of Society of Chemical Industry in London on 8 May 1973. *Chem Ind (Lond)* 1: 9-24. Jan 5, 1974
- 036545** 15 C89
General view of province of Almería. [Agriculture]. (Spa) *Cultiv Mod* 56 (1): 48-52. Nov 1973
- 036546** 15 C89
General view of province of Cuenca. [Agriculture]. (Spa) *Cultiv Mod* 56 (12): 39-42. Dec 1973
- 036547** 58.8 D482
Experiences & methods of vocational education in progress of State Farm training center. (Ger) Lothmann, G *Dtsch Agrartech* 24 (2): 93-96. Feb 1974
- 036548** 102.5 EX7
Studies of methods to estimate potential evapotranspiration in Vicosa. [Irrigation]. (Por) Sedyama, G C *Experientiae* 16 (4): 61-79. Ref. Eng. Sum. Sept 1973
- 036549** 1 EX892EX
Development gets free rein. [Communities]. Jones, B W *Ext Serv Rev U S Dep Agric* 44 (9/10): 12-13. Sept/Oct 1973
- 036550** 1 EX892EX
Vermont project aids families. [Social welfare]. Steele, D H *Ext Serv Rev U S Dep Agric* 44 (9/10): 14-15. Sept/Oct 1973
- 036551** 1 EX892EX
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- 036552** A281.9 AG83E
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- 036556** 383 AS7
Some little-known aspects of Pasteur's life. [Agricultural bacteriology]. (Fre) Bertrand, D *Ind Aliment Agric* 90 (11): 1439-1442. Nov 1973
- 036557** HD1945.A115
Do farmers need a meteorological assistance? (Fre) Lasso, J *Inf Agric (paris)* 442: 46-47. Dec 1973
- 036558** 20 M57AG
Agriculture of member nations of Council for Mutual Economic Aid in current Fifth Year Plan. (Ger) Fasekash, L *Int Z Landwirtsch* 6: 609-614. 1973
- 036559** 16 IT1
Historical & cultural significance of agriculture. (Ita) Martirano, G *Ital Agric* 110 (5): 534-536. May 1973
- 036560** 340.9 SO1
Cold air lake in an orange orchard opened in a reclaimed salt-field in Urato, Ehime Prefecture. (Jap) Yoshino, M M *J Agric Meteorol (soc Agric Meteorol Jap)* 29 (2): 17-20. Ref. Sept 1973
- 036561** 340.9 SO1
A change of minimum temperature distribution with newly formed road. [Orchards]. (Jap) Nakagawa, Y *J Agric Meteorol (soc Agric Meteorol Jap)* 29 (2): 19-30. Sept 1973
- 036562** 340.9 SO1
A brief report of study group on crop climate. (Jap) Tsuiji, Y ed *J Agric Meteorol (soc Agric Meteorol Jap)* 29 (2): 41-46. Sept 1973
- 036563** 340.9 SO1
Detailed climatic classification of Tohoku District by principal component analysis. (Jap) Kojima, C *J Agric Meteorol (soc Agric Meteorol Jap)* 29 (3): 9-16. Eng. Sum. Dec 1973
- 036564** HC59.7.A16
Educational crisis in developing nations: Alternatives. Swetz, F J *J Dev Areas* 8 (2): 173-179. Ref. Jan 1974
- 036565** 321.8 J82
An ecological approach to understanding family & community relationships. Manning, F V *J Home Econ* 66 (3): 9-13. Ref. Mar 1974
- 036566** 449.8 J82
Antibody responses in patients with farmer's lung disease to antigens from *Micropolyspora faeni*. Hollingdale, M R *J Hyg* 72 (1): 79-89. Ref. Feb 1974
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Influence: A comparative study in three rural communities. Ship, D M *J Minn Acad Sci* 38 (2/3): 116-119. Ref. 1973
- 036568** 84 L84J
Arid Lands Research Centre, Abu Dhabi. Shirley, M G *J R Hort Soc* 98 (10): 460-461. Oct 1973
- 036569** 281.8 L93
Relative growth of farmers' cooperatives in Louisiana & United States, 1937-1970. Roy, E P *La Rural Econ* 36 (1): 13-16. Feb 1974
- 036570** 281.8 L93
Need for public services in rural areas. Johnson, R B *La Rural Econ* 36 (1): 6-7. Feb 1974
- 036571** 105.2 OR3
Services of Central Library at Agricultural University - past & future. (Dut) Loosjes, T P *Landbouwk Tijdschr* 85 (9): 308-314. Eng. Sum. Sept 1973
- 036572** S16.R815
Correlations between geomagnetic field variations & meteorological elements. (Rum) Urban, V *Luce Stint, Ser Agric Inst Agron Dr Petru Groza Cluj* 27: 439-443. Eng. Sum. 1971 (Pub. 1972)
- 036573** S16.R815
Specific characters of winter in Cluj. (Rum) Vasilescu, O *Luce Stint, Ser Agric Inst Agron Dr Petru Groza Cluj* 27: 445-452. Eng. Sum. 1971 (Pub. 1972)
- 036574** S544.3.H3H3
Achievement analysis report, Hawaii Agricultural Experiment Station, fiscal year 1972-73 university cooperative extension service. *Misc Publ Coop Ext Serv Univ Hawaii* 112, 16 P. 1973
- 036575** 44.8 C162
Centennial '74 at OAC [Ontario Agricultural College] looks back at dairy education in a century college. McKnight, L M *Mod Dairy* 53 (1/2): 11-15. Jan/Feb 1974
- 036576** 105.9 M852
Characteristics of agrarian intelligentsia. (Hun) Timar, J *Mosonmagy Mezőgazdasági Közlet Agrár Ég. Keszth* 15 (7B): 31-50. Ref. Eng. Sum. 1972
- 036577** QH7.N3
Agricultural school farm - an efficient activity in agriculture. (Rum) Uzuana, N *Natura* 26 (1): 72-74. Jan 1974
- 036578** QH7.N3
Characteristic features of a techno-productive lesson for pupils in agriculture. (Rum) Trifa, T *Natura* 26 (1): 75-77. Jan 1974
- 036579** 1973
Study of requirements of information customers in subtropical agriculture. [Agricultural libraries, information]. (Rus) Nikolaishvili, L L *Subtrop Kul't* 4: 169-173.
- 036580** 410 N813
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- 036581** HD1922.O9
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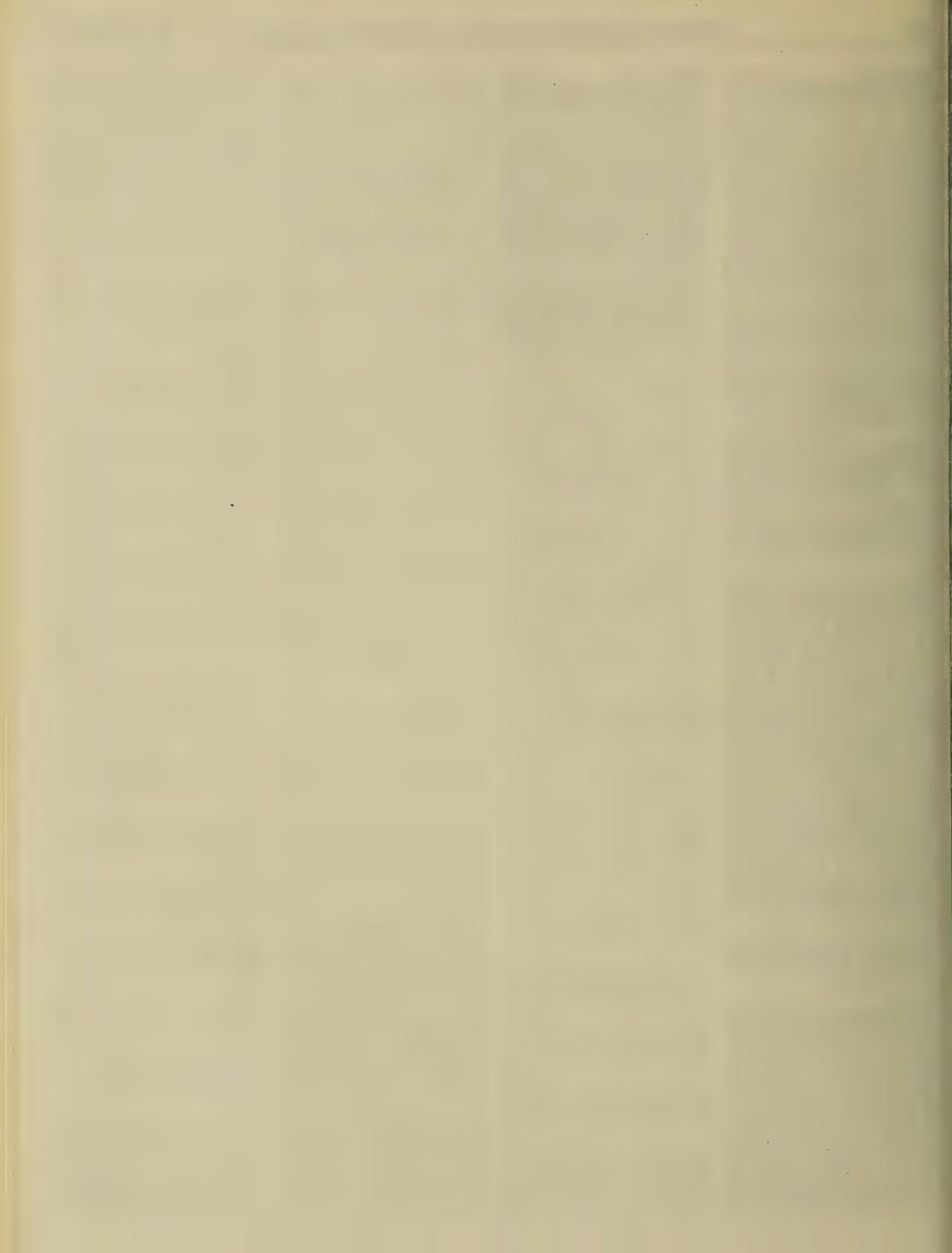
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INTRODUCTION

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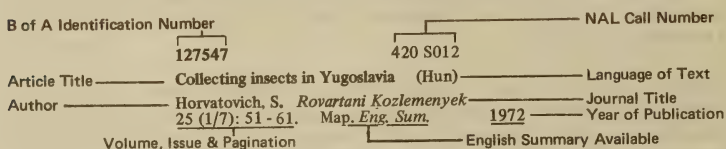
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(Bel)	Belorussian	(Gre)	Greek	(Por)	Portuguese
(Bul)	Bulgarian	(Heb)	Hebrew	(Rum)	Rumanian
(Bur)	Burmese	(Hun)	Hungarian	(Rus)	Russian
(Chi)	Chinese	(Ice)	Icelandic	(Ser)	Serbian
(Cro)	Croatian	(Ind)	Indonesian	(Slo)	Slovak
(Cze)	Czech	(Ita)	Italian	(Slv)	Slovenian
(Dan)	Danish	(Jap)	Japanese	(Spa)	Spanish
(Dut)	Dutch	(Kor)	Korean	(Swe)	Swedish
(Est)	Estonian	(Lat)	Latin	(Tha)	Thai
(Fin)	Finnish	(Lav)	Latvian	(Tur)	Turkish
				(Ukr)	Ukrainian

In order to identify bibliographic elements within each main entry, note the following:



SUBJECT INDEX

The vocabulary of the Bibliography of Agriculture is derived from the indexed literature. As a result, it reflects both natural language and scientific terminology. The reader must keep this fact in mind and approach the subject index without any preconceived taxonomy in mind. For example, data on a particular member of the ACARIDAE family may be found under TICKS as well. Prevention measures will be found under ACARICIDE.

The reader should plan his search in terms of the most specific natural language term prior to searching under a scientific term. However, note that the vocabulary is an open ended one and new terms are added each month. Undoubtedly readers will be more keenly aware of crucial search terms within their own fields of research. If such terms are missing, we hope readers will notify the editor of such gaps. The Subject Index will increase its utility if there is frequent interaction between the research community and the editor.

All entries are based on single words in the title (and title enrichment when added by the library). An entry will be made whenever a title word matches a word on the authority file, which currently contains over 25,000 terms. The file is organized so that in most cases synonymous terms are grouped together under a single subject heading. Thus singular and plural forms are grouped under a single term as are grammatical variants:

PROTEINS (singular and plural variation)

I. Water, fats, ash & salt. II **Protein**

Modifying **proteins** for maximum utilization

MANAGEMENT (grammatical and term variation)

profits through nutrition and **management**

Management agricultural extension

* **Administration** of agricultural cooperatives

Techniques of **administering** apiaries in apiculture

* Cross references are made to synonymous terms.

The title word on which the entry is based, appears in bold face type to facilitate rapid scanning of the index. A secondary word, which may either precede or follow the primary word, also appears in bold face type. These word pairs help provide finer access to desired term, particularly under headings which have many entries.

VIRUSES

Physical properties of blue-green **algal virus**

Venezuelan equine **encephalomyelitis virus**

Limited proteolysis of **potato virus X** by

with sugar beet tolerance to **virus yellows**.

If a search is required which related to a general term such as an **ACID** it would be preferable to search under the specific type of **ACID**. Very often a specific acid has already been established as a subject term. However new types of acids, or viruses or plant varieties will not have been identified in the thesaurus and under such circumstances, searching under the more general term would prove more fruitful.

We have changed the format of the table of contents to reflect the identification number ranges of each of the main entry categories. Thus, the reader can check the category under which a subject entry falls, prior to verifying it in the main entry section.

The asterisk line: * * * * *

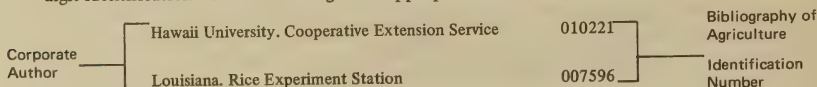
Occasionally the reader will encounter a series of asterisks in place of title data under a term, followed by the B of A identification number. This line indicates the presence of material which is part of a series and the title data is identical to that immediately above the asterisk. The identification number given is the last entry in the series which has been entered consecutively within a particular category.

GEOGRAPHIC INDEX

As part of our goal of constantly increasing access to the literature, we have added a geographic index. This index is a direct alphabetic listing of all place names which have been indexed in association with the title. Obviously not all titles will have geographic entries. The indexing division of the National Agricultural Library will add geographic descriptors wherever it is germane to the subject of the article.

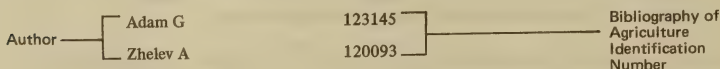
CORPORATE AUTHOR INDEX

Readers will note that the corporate author index is considerably enlarged. We are now able to indicate authorship of the publications of the State Agricultural Experiment Stations and Extension Services. The full corporate citation is given, followed by the six digit identification number referring to its appropriate main entry.



AUTHOR INDEX

All personal authors (to a maximum of ten for each citation) are included in the index. Entries are made by last name and initials, followed by the six digit identification number referring to the bibliographic data in the main entry section.



AVAILABILITY OF REFERENCES CITED

Most of the current publications of the Department of Agriculture, and publications issued by the State Experiment Stations and the State Agricultural Extension Services, may be obtained free of charge by applying directly to the issuing agency. The National Agricultural Library does not distribute them, nor does the publisher.

Users who wish to obtain full text for citations should first utilize the resources of their local libraries. For material which is not readily available from other sources, users may request material from the National Agricultural Library. Such requests must include the complete citation as well as the Library's call number. Microfilm or electrostatic copies of documents may be purchased from the Photocopying Service of the National Agricultural Library, U.S. Department of Agriculture, Beltsville, Maryland 20705. Copy charges are:

Microfilms: \$1.00 for each 30 pages or fraction copied from a single article or book

Electrostatic
Copies: \$1.00 for each 10 pages or fraction copied from a single article or book.

Payment must accompany the order. Cash, library coupons, check, or money order drawn to the National Agricultural Library, USDA, are acceptable. Payment for orders originating outside the United States should be made by international money order or draft on an American bank, or by UNESCO book coupons. Library coupons, valued at \$1.00 each, may be purchased in any quantity from the Library's Photocopying Service.

MAIN ENTRY SECTION

GENERAL AGRICULTURE AND RURAL SOCIOLOGY

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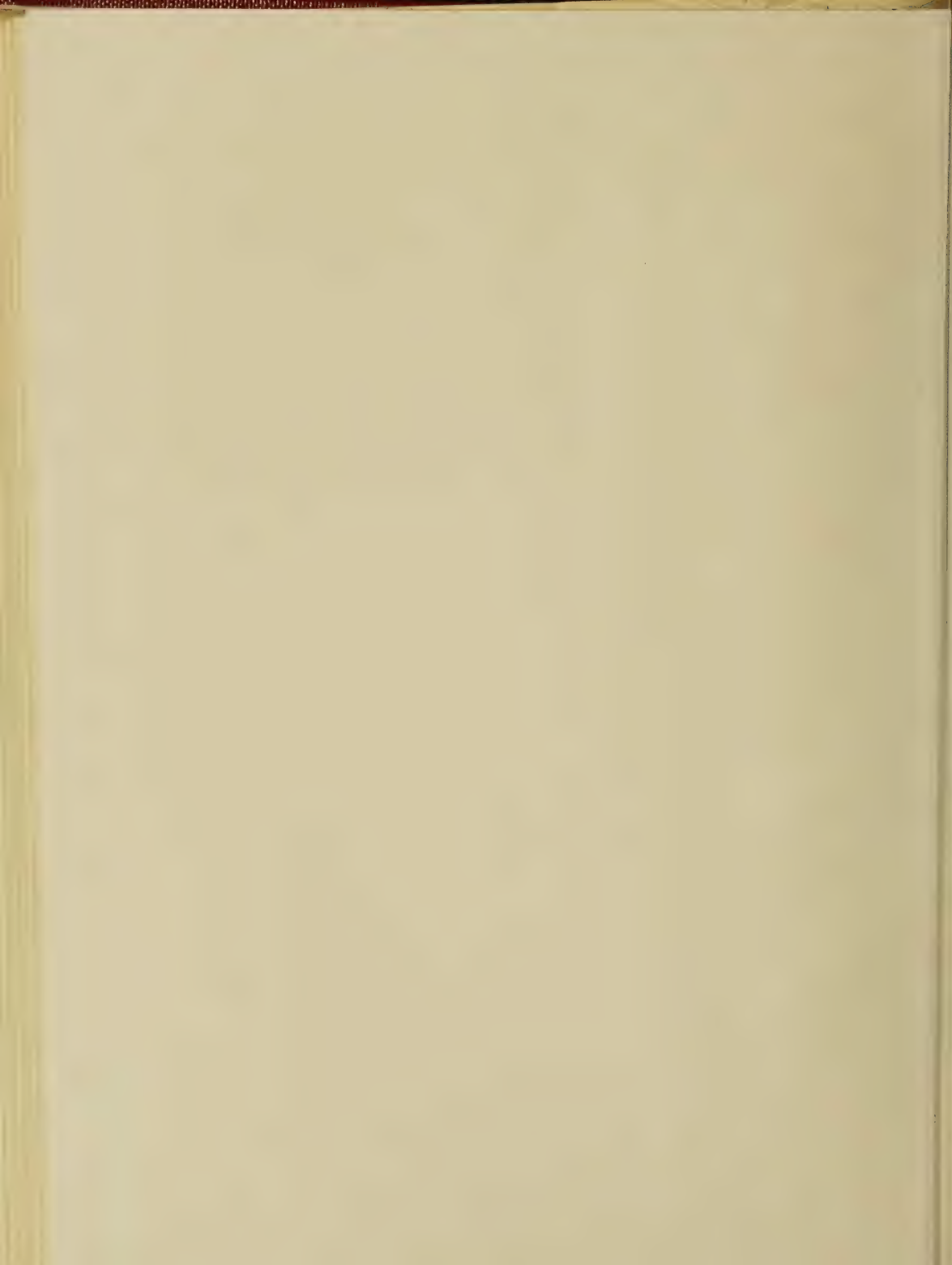
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